



Is there a better way for your lab to interpret DNA mixtures?

- Tired of throwing out low level data? Is there a way to reliably interpret a contributor below your stochastic threshold?
- Learn how to apply the basic fundamentals in deconvoluting mixtures: estimating the number of contributors, making assumptions, and using mixture proportions
- Learn how to apply the different RMP approaches for mixtures
  - ⇒ Restricted RMP
  - ⇒ Unrestricted RMP
  - ⇒ Modified RMP

Take your first step toward probabilistic genotyping.

- Learn the future of complex mixture interpretation.
- Introduction to semi and fully continuous Likelihood Ratio models
- What are the real practical considerations in transitioning these models in your laboratory?

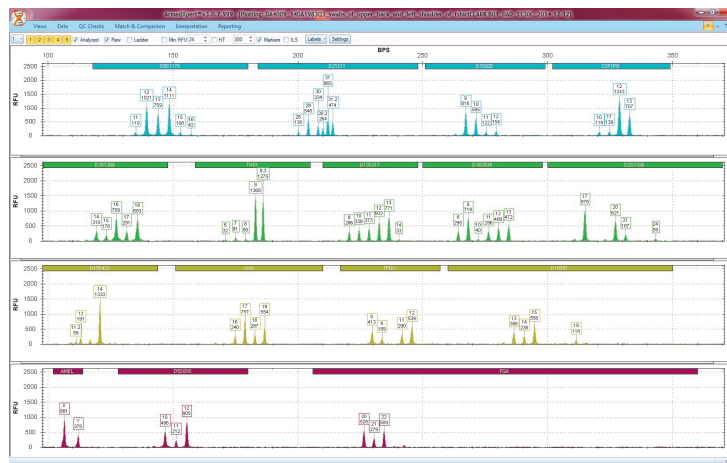
For more information please email:

- [usarmy.dfsc.mixture-workshop@mail.mil](mailto:usarmy.dfsc.mixture-workshop@mail.mil)

# DO MORE WITH MIXTURES

## USACIL Advanced DNA Mixture Interpretation Workshop

### LEARN TO INTERPRET THIS MIXTURE USING PROBABLISTIC GENOTYPING



DNA mixture interpretation continues to be a challenge for forensic DNA casework laboratories. The USACIL division of Defense Forensic Science Center, an operational arm of the Defense Forensic and Biometrics Agency (DFBA), has extensive experience interpreting complex DNA mixtures and has developed a comprehensive mixture interpretation protocol that allows for the interpretation of 2 and 3 contributor mixtures - while accounting for allelic dropout. Overall, this approach has resulted in a more standard interpretation and reporting method for over 50 analysts.

USACIL will be providing a 2nd series of **free 4-day workshops** to state and local DNA examiners that are interested in learning more about advanced mixture interpretation. This workshop will provide more specific guidance from a casework laboratory's perspective on practical ways to evaluate, validate, train, implement, and

testify using a more effective mixture interpretation protocol.

Each workshop will be limited to 30 participants. All instruction will be provided by actual DNA examiners working at USACIL. This classroom-based training will provide hands-on opportunities for learning the various statistical approaches. Additionally, mixture examples will be sent out in advance for students to interpret using their current protocols for comparison.

To assist the trainers in assessing group knowledge and mixture experience a brief questionnaire will be required as part of your registration. Upon successful completion of the workshop, participants will receive a certificate for their training records.

Travel or lodging expenses will not be covered by USACIL or host laboratory. All comments and opinions given are those of the instructors and not those of USACIL.

- \* **Would you interpret this mixture?**
- \* **Does your lab have a protocol for this type of mixture?**
- \* **Will the examiners at your lab approach this mixture the same way?**
- \* **Will they get the same results?**

If you've answered 'no' to any of these questions—this workshop is for you!

Please join us at one of the 3 regional workshops hosted at:

- Wisconsin State Crime Lab: May 12-15
- DC Department of Forensic Sciences: June 16-19
- Louisiana State Police Crime Lab: July 21-24

DNA Mixture Interpretation  
training

